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May 8, 2001

TO: Members of the MAG Building Codes Committee

FROM: Leon Manuel, City of El Mirage, Chairman

SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Wednesday, May 16, 2001 - 2:00 p.m.
MAG Office, Suite 200, Ocotillo Room
302 North 1st Avenue, Phoenix

A meeting of the MAG Building Codes Committee has been scheduled for the time and place noted above.

Members of the MAG Building Codes Committee may attend **either in person or by telephone conference call**. Those attending by telephone conference call are requested to call 602-261-7510 between 1:55 p.m. and 2:00 p.m. After prompting, please enter the meeting ID number 28453 (build) on your telephone key pad followed by the pound key. If you have a problem or require assistance, dial 0 after calling the number above

Please park in the garage under the Compass Bank Building. Bring your ticket to the meeting, parking will be validated. For those using transit, the Regional Public Transportation Authority will provide transit tickets for your trip. For those using bicycles, please lock your bicycle in the bike rack in the garage.

Please be advised that under procedures approved by the MAG Regional Council on June 26, 1996, all MAG committees need to have a quorum to conduct business. A quorum is a simple majority of the membership, or 13 people for the MAG Building Codes Committee. If you are unable to attend the meeting, please make arrangements for a proxy from your jurisdiction to represent you.

If you have any questions or need additional information, please contact me at (602) 438-2200 or Harry Wolfe at (602) 254-6300.

TENTATIVE AGENDA

	<u>COMMITTEE ACTION REQUESTED</u>
1. <u>Call to Order</u>	
2. <u>Approval of March 21, 2001, Meeting Minutes</u>	2. Review and approve meeting minutes of March 21, 2001.

3. Call to the Public

An opportunity will be provided to members of the public and Committee to address the Building Codes Committee for items that are not included on the agenda.

4. Enforcement of Rule 310- Dust Control

At the March meeting of the MAG Building Codes Committee it was reported that a representative of Maricopa County was interested in making a presentation to the Building Codes Committee regarding enforcement of Rule 310 pertaining to dust control. The representative will discuss the rule and its enforcement. Please see Attachment One.

5. Uniform Mechanical Code (UMC) Roof Access Provisions

At the March 21, 2001 meeting of the MAG Building Codes Committee meeting it was noted that the Building Inspectors/Plans Examiners forum had revised its interpretation of the Uniform Mechanical Code (UMC) Roof, Access Provisions and would bring the new interpretation to the April meeting of the Building Codes Committee for action. Since the April meeting was deferred, it is being addressed at the May meeting. Please see Attachment Two.

6. Update on Adoption of the 2000 Codes

A status report and discussion will take place regarding the efforts of a working group of the Arizona Building Officials (AZBO) towards the adoption of the proposed MAG 2000 International Building Code, the 2000 International Residential Code, the 2000 International Mechanical Code. Adoption of the 2000 International Codes by January 2002 reflect the efforts of MAG members to maintain uniformity throughout the valley and to adopt the latest available codes.

3. For information and discussion.

4. For information, discussion and possible recommendation.

5. For information, discussion and possible action.

6. For information, discussion and possible action.

7. Status Report on Initiatives on Establishing a Common Permitting Process

At the March 21, 2001 meeting of the MAG Building Codes Committee it was noted that working groups of the Smart Permitting Forum, sponsored by the City of Phoenix were pursuing a number of initiatives. On May 14, 2001 a meeting of the Smart Permitting Forum will be held by the City of Phoenix. Among the issues to be discussed at the forum include common application and permit process for utility providers, electronic plan review, universal permit application, and electronic utility clearances: A status report on the forum will be provided.

8. Legislative Issues

A review of legislative issues will be undertaken. The status of House Bill 2431 will also be discussed.

9. MAG Building Codes Committee Standards Notebook

At the March 21, 2001 meeting of the MAG Building Codes Committee meeting, MAG staff requested that members of the Committee review the Table of Contents of the Draft MAG Building Codes Standards Notebook and develop recommendations for what standards should be retained, deleted or added to the notebook. Copies of the notebook were distributed to members who did not have already have a copy. At the May meeting a recommendation will be made on what to include in the notebook and subsequently a Working Group will assist in preparing standardized cover sheets to accompany each standard. Input on the contents of the notebook will be solicited from members of the MAG Building Codes Committee. Please see Attachment Three.

10. Plumbing Code Commission

A status report on the State Plumbing Commission will be given.

7. For information, discussion and possible action.

8. For information, discussion and possible action.

9. For information, discussion and possible action.

10. For information and discussion.

11. Updated MAG Building Codes Committee Membership

An updated membership roster for the MAG Building Codes Committee is transmitted to you. If there any changes to the list, please notify Harry Wolfe at (602) 254-6300 or e-mail him at hwolfe@mag.maricopa.gov. Please see Attachment Four.

12. Topics for Future Agendas

Potential topics for the next meeting will be discussed. The next meeting of the MAG Building Codes Committee is scheduled for Wednesday, June 20, 2001 at 2:00 p.m. at the MAG Office.

13. Adjournment

11. For information and discussion.

12. For information.

13. For information and discussion.

PURPOSE OF THIS GUIDE

Maricopa County does not meet the Federal Health Standards for ambient air concentrations of particulate matter (which includes dust). Maricopa County Rule 310 contains the requirements that construction projects and others must follow to prevent dust emissions. The explanations, examples, and suggestions contained in this guide do not constitute enforceable requirements, but are provided solely to assist persons in their efforts to comply with Rule 310.

WHAT IS PM-10?

Particulate Matter smaller than 10 microns in diameter. Levels of PM-10 at the edge of a construction site can be as much as three times higher than the allowable standard.

HOW DOES PM-10 AFFECT US?

PM-10 may aggravate heart and lung disease, and it accelerates the loss of lung capacity and adds stress to the cardiovascular system.

THINK PREVENTION

The control measures in a dust control plan must be implemented during all phases of construction. If a plan is not implemented, poor working conditions begin to escalate. Don't think "dust is natural, it's so dry here, there's nothing I can do". The excess particulate is from disturbance of the desert and the lack of stabilization. Good dust control prevents erosion of the soil on site and minimizes the adverse effects of construction on neighbors.

Fugitive dust emissions come from activities and conditions such as:

- Earthmoving activities which disturb the soil such as grading, construction, demolition, and trenching.
- Material handling, transport, and storage piles.
- Dust deposited on paved areas from track-out, spillage and fallout.
- Wind blown dust from unstabilized disturbed surface areas.

WHAT AM I LEGALLY REQUIRED TO DO?

1. **Prevent dust from exceeding visible emission limitations.**
2. **Obtain a permit** - The property owner, lessee, developer, or general/prime contractor must submit a permit application with a dust control plan and obtain a permit for all earthmoving jobs that will disturb at least one tenth of an acre or 4,356 square feet.
3. **Implement the dust control plan** - Maintain dust control measures on the site **at all times.**
4. **Keep records** - Monitor the construction activities frequently to assure the dust control plan is implemented.

SITE PLANNING

Thinking of dust control prior to project start-up can save time, money and project resources. Phase your project and plan your site layout to minimize disturbance of the soil.

Approvable Dust Control Plans require that stabilized construction entrances be installed at all access points if there is to be material hauling on or off site, OR if the site is larger than 5 acres.

GRAVEL PADS

Use one inch (1") to three inches (3") in diameter, washed, well graded gravel or crushed rock. The gravel pad should be at least 30 feet wide by 50 feet long, and a minimum of 6 inches deep.

EFFECTIVE WATERING

- Wet the area to depth of cuts or equipment penetration.
- Apply water 15-30 minutes before starting operations.
- Apply water at the end of the day.
- During grading, water using a water truck.
- During trenching, water using a fine spray or mist.

- During screening, mist material after it drops from the screen.
- Apply water to unpaved haul roads in sufficient quantity to maintain a moist surface.

If the area is inaccessible to water trucks due to slope conditions or other safety factors, watering should be conducted with water hoses or sprinkler systems.

For many projects, chemical stabilizers can be an effective and economical alternative to watering.

WIND BARRIERS

Effective wind barriers/fences on the job site are:

- 3 to 5 feet high adjacent to roads and urban areas **AND**
- made of material with a porosity of 50% or less.

MATERIAL HANDLING

Loading:

- Mist material with water while stacking.
- Mix excavated material with water prior to loading.
- Empty loader slowly and keep bucket close to the truck while dumping.

Hauling:

- Tarps or other suitable enclosures are **required** on haul trucks to prevent wind blown dust.
- Do not overload the truck!
- Check belly-dump truck seals regularly to prevent spillage.

Track-out:

- Daily vacuuming or wet boom cleaning is **required** to control track-out.
- Install a gravel pad at the access point to your site.
- Use grizzlies to remove excess dirt from trucks.

MOST COMMONLY MISUNDERSTOOD TERMS

DISTURBED SURFACE AREA - A portion of the earth's surface which has been modified from its natural condition.

UNPAVED ROAD - Any road, equipment path, or driveway that is not covered by asphalt.

GRAVEL PAD - A device to dislodge mud, dirt, and/or debris from the tires of motor vehicles prior to leaving the work site.

STABILIZED - A condition where the soil surface is wet, crusted, covered, or otherwise secured.

MOST COMMON PROBLEMS FOUND DURING EARTHMOVING PROJECT INSPECTIONS:

- Soil surface stabilization not maintained over weekends.
- No permit available on-site.
- No gravel pad at the construction entrances.
- No tarp on haul trucks.

WHAT WILL HAPPEN IF I'M NOT IN COMPLIANCE?

If your site is not in compliance, you will be issued a **Notice of Violation**. A Notice of Violation is a formal written notice that there has been a documented violation. The County Inspector may issue a notice during a site visit or may forward it by mail to the responsible party or parties. Multiple Notices of Violation may be subject to a **Citation** (Class I Misdemeanor). A Citation may also be immediately issued without notice for major violations of Rule 310.



WHOM DO I CALL IF I HAVE QUESTIONS?

The Maricopa County Environmental Services Department is located at:

MAIN OFFICE:
Air Quality Division
1001 North Central Avenue
Phoenix, Arizona 85004
(602) 506-6700

To obtain a permit application, contact the County dust control coordinator at (602) 506-6700.

WHOM DO I CALL TO COMPLAIN?

An Environmental Response Line has been established by Environmental Services to receive and route environmental complaints from citizens.

To file a complaint regarding dust, please call (602) 506-6616. Operators are available to take your call from 8:00 a.m. to 5:00 p.m., Monday through Friday. Voice mail is available outside of normal business hours.

- DUST CONTROL FEES -

0.1 acre to less than 1.0 acre
\$75.00

1.0 acre(s) or more
\$36.00 per acre + \$110.00

**FEES EFFECTIVE
OCTOBER 19, 1998**

A Guide to Reducing Air Pollution from CONSTRUCTION



Maricopa County
Environmental Services
Department
Albert F. Brown, M.P.A., R.S.
Director

ATTACHMENT TWO

Memorandum

Date: May 9, 2001
To: Leon Manual, Chairman of M.A.G. Building Codes Committee
From: Ben Cox, Chairman of M.A.G. Building Inspector/Plan Reviewer Forum
Subject: Recommendation to the M.A.G. Building Codes Committee for side railings at roof scuttle opening or coping per 1997 UMC section 307.5 item 2, subsection 1 item 1.5

The Building Inspector/Plan Reviewer Forum has reviewed and discussed the following code provisions:

UMC 307.5(2)(1)(1.5) "Have side railings which extend at least 30 inches (762 mm) above the scuttle opening or coping to the step off."

Code Interpretation:

Side rails are required on each side of a ladder, extending to 30" above the roof opening, i.e. the UMC requires a railing on each side.

Background/research Analysis:

Some form of railing or hand grip is required for safe transition from ladders to and from the roof. The UMC is specific as to the requirement for railings on each side of the ladder, either by extending or folding from the ladder or hatch, or mounted directly on the roof. ICBO staff support the multiple side rail interpretation. OSHA did not appear to be as strict, only requiring that a method of safe transition be used. Proposed International Mechanical Code requires only that "access shall be provided by a permanent approved means of access, the extent of which shall be from grade or floor level to the equipment's level service space."

Discussion:

Several jurisdictions do not enforce any type of railing extension or grip. Some jurisdictions have had good results by allowing a single centered ladder extension. Few jurisdictions if any, have enforced two rail extensions. The proposed IMC uses "performance" language rather than "prescriptive", thus allowing many methods of achieving safe roof access by ladders, stairs, or other unspecified "means of access". Current UMC code language and interpretation appear to be restrictive, but no background as to why the requirement for multiple side rails could be found.

Summary/Recommendation:

Considering the information provided through ICBO clarifying the requirements for two side railings, it is recommended that all jurisdictions require two side rails or side rail extension for all applications for the purpose of uniformity.

ATTACHMENT THREE

Draft MAG Building Codes Standards Notebook

The Draft MAG Building Codes Standards Notebook was distributed in October 1997 to members of the MAG Building Codes Committee. Because of a shortage of stafftime, the notebook has never been finalized. It is our intent to finalize the notebook during the coming Fiscal Year beginning July 1, 2001 and then to keep it updated on a regular basis.

Identified on the next page is the Table of Contents for the notebook which reflects standards adopted as of 6/13/96. Standards that have been adopted by the Building Codes Committee subsequently to that date are listed on the page that follows (please advise if there are any standards that have been omitted). At the May 16, 2001 meeting of the MAG Building Codes Committee we will discuss which standards should be included in the notebook

Draft MAG Building Codes Standards Notebook
Adopted Standards as of 6/13/96
Table of Contents

UNIFORM BUILDING CODE

1. **CHAPTER 15 ROOFS AND ROOF STRUCTURES**
Section 1505.3 Attic Ventilation
2. **CHAPTER 17 STRUCTURAL TESTS and INSPECTIONS**
Section 1701 - Special Inspection Program
3. **CHAPTER 21 MASONRY**
Adobe Amendments (1982 U BC Section 2405, Rev. 7/84)
Masonry Wall Reinforcement Details and Roof Tie Down Details
4. **CHAPTER 23 WOOD**
Wood Truss Standards
5. **CHAPTER 24 GLASS AND GLAZING**
Section 2406.4 Item 9.2 - Safety Glazing Next to Swimming Pools
6. **CHAPTER 25 GYPSUM BOARD AND PLASTER**
7. **CHAPTER 47 WALL AND CEILING COVERINGS**
One Coat Stucco Compliance Program
8. **APPENDIX CHAPTER 3 USE or OCCUPANCY**
Division V - Supportive Residential Living Centers (6/96)
9. **APPENDIX CHAPTER 12 INTERIOR ENVIRONMENT**
Division II - Sound Transmission Control

UNIFORM MECHANICAL CODE

1. 1994 Uniform Mechanical Code (ICBO) Amendments

UNIFORM PLUMBING CODE

1. 1994 Uniform Plumbing Code (IAMPO) Amendments
2. Low Flow Plumbing Fixture Standards
3. Roof Drainage (9/85)

NATIONAL ELECTRICAL CODE

1. 1993 National Electrical Code Amendments

**MAG Building Codes Committee Adopted Standards Subsequent to 6/13/96
(Potential Additions to the Notebook)**

<u>Date of Adoption</u>	<u>Description of Standard</u>
October 22, 1997	Model Fireplace Standard
April 22, 1998	1996 National Electrical Code with amendments
February 17, 1999	Standard for Strawbale House Construction
April 19, 2000	Marking of Trusses Standard
January 17, 2001	1999 National Electrical Code with amendments

ATTACHMENT FOUR
MAG BUILDING CODES COMMITTEE - CONTACT LIST (May 2001)

Name	Representing	Telephone #	FAX No.	E-Mail Address
Leon Manuel	El Mirage	602-438-2200	(602) 431-9562	lmanuel@stantec.com
Ken Sowers	Avondale	623-932-6088	623-932-6119	ken.sowers@avondale.org
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Bob Lee	Cave Creek	480-488-1414x132	480-488-2263	blee@cavecreek.org
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Patrick Davis	Fountain Hills	480-816-5110	480-495-5784	PatrickDAZ@aol.com
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Skip Blunt	Wickenburg	520-684-5451x202	602-506-1580	skip@ci.wickenburg.az.us
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Rus Brock	Home Builders Assn.	602-274-6545	602-234-0442	brockr@hbaca.org